

=> d his

(FILE 'HOME' ENTERED AT 14:12:50 ON 10 MAR 2006)

FILE 'REGISTRY' ENTERED AT 14:12:59 ON 10 MAR 2006

L1 STRUCTURE UPLOADED

L2 0 S L1

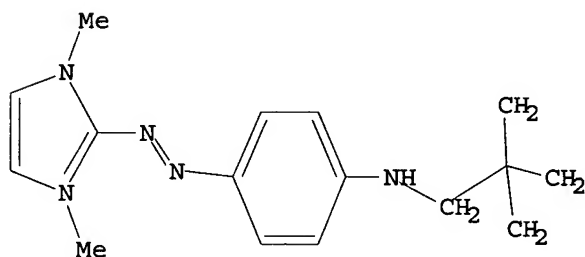
L3 12 S L1 FULL

FILE 'CAPLUS' ENTERED AT 14:13:29 ON 10 MAR 2006

L4 2 S L3

=> d que l4 stat

L1 STR



Structure attributes must be viewed using STN Express query preparation.

L3 12 SEA FILE=REGISTRY SSS FUL L1

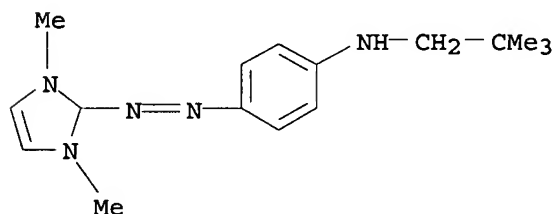
L4 2 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d 1-2 bib abs hitstr

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:243700 CAPLUS
 DN 144:8075
 TI Cationic azo dyes
 AU Anon.
 CS Switz.
 SO IP.com Journal (2004), 4(9), 31 (No. IPCOM000030740D), 25 Aug 2004
 CODEN: IJPOBX; ISSN: 1533-0001
 PB IP.com, Inc.
 DT Journal; Patent
 LA English

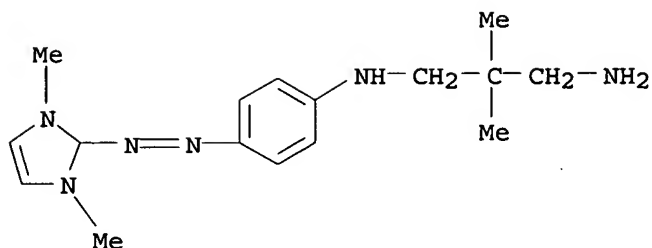
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI IP 30740D		20040825		
PRAI IP 2004-30740D		20040825		

AB The present invention relates to the preparation and application of cationic azo dyes. Diazotized 4-methoxyaniline was coupled with imidazole and the product was dimethylated with Me₂SO₄ to give an azo compound which was then aminated with N,N,2,2-tetramethyl-1,3-propanediamine to provide a red dye for hair coloring.
 IT 745818-60-4P 745818-62-6P 745818-68-2P
 745818-70-6P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (dye; preparation of cationic azo dyes for hair coloring)
 RN 745818-60-4 CAPLUS
 CN 1H-Imidazolium, 2-[[4-[(2,2-dimethylpropyl)amino]phenyl]azo]-1,3-dimethyl-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
 RN 745818-62-6 CAPLUS
 CN 1H-Imidazolium, 2-[[4-[(3-amino-2,2-dimethylpropyl)amino]phenyl]azo]-1,3-dimethyl-, chloride (9CI) (CA INDEX NAME)

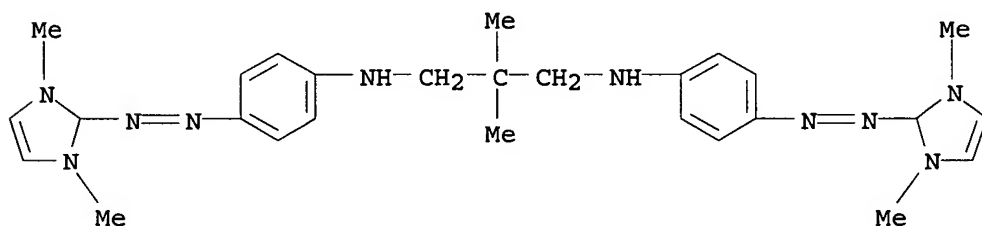


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 745818-68-2 CAPLUS

CN 1H-Imidazolium, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(imino-4,1-phenyleneazo)]bis[1,3-dimethyl-, difluoride (9CI) (CA INDEX NAME)



● 2 F⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

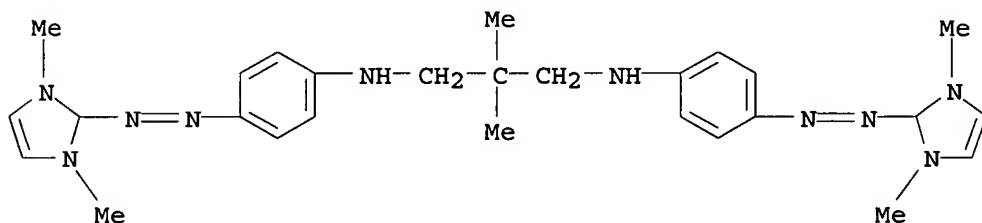
RN 745818-70-6 CAPLUS

CN 1H-Imidazolium, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(imino-4,1-phenyleneazo)]bis[1,3-dimethyl-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 745818-69-3

CMF C27 H36 N10

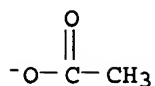


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1

CMF C2 H3 O2

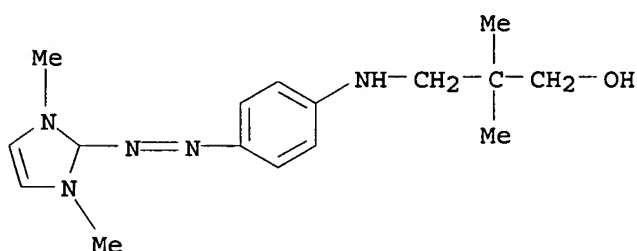


IT 745818-63-7P 745818-64-8P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(red dye; preparation of cationic azo dyes for hair coloring)

RN 745818-63-7 CAPLUS

CN 1H-Imidazolium, 2-[[4-[(3-hydroxy-2,2-dimethylpropyl)amino]phenyl]azo]-1,3-dimethyl-, chloride (9CI) (CA INDEX NAME)

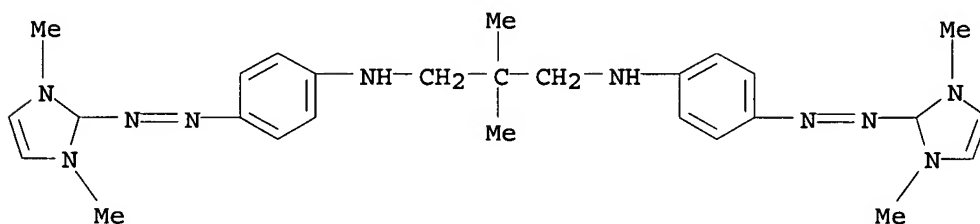


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 745818-64-8 CAPLUS

CN 1H-Imidazolium, 2,2'-[[2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(imino-4,1-phenyleneazo)]bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)



●₂ Cl⁻

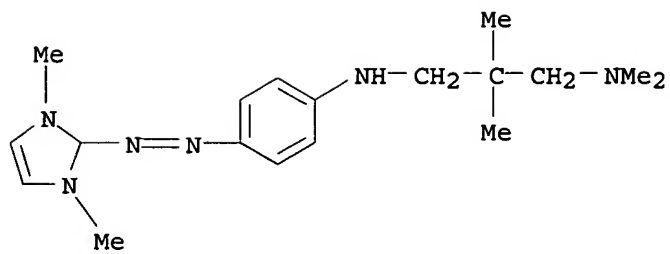
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

IT 745818-61-5P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(red dye; preparation of cationic azo dyes for hair coloring)

RN 745818-61-5 CAPLUS

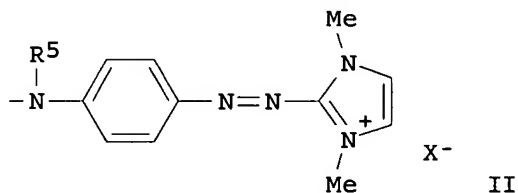
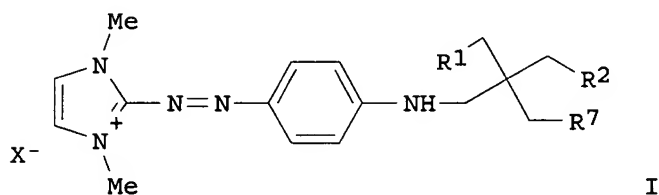
CN 1H-Imidazolium, 2-[[4-[[3-(dimethylamino)-2,2-dimethylpropyl]amino]phenyl]azo]-1,3-dimethyl-, chloride (9CI) (CA INDEX NAME)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:722659 CAPLUS
 DN 141:226916
 TI Cationic azo dyes particularly useful for dyeing human hair
 IN Eliu, Victor Paul; Frohling, Beate
 PA Germany
 SO U.S. Pat. Appl. Publ., 42 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 2004168265	A1	20040902	US 2004-783256	20040220	
	WO 2004076564	A1	20040910	WO 2004-EP50132	20040216	
	W:			AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	EP 1599550	A1	20051130	EP 2004-711378	20040216	
	R:			AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK		
PRAI	EP 2003-100445	A	20030225			
	EP 2003-102284	A	20030724			
	WO 2004-EP50132	W	20040216			
OS	MARPAT 141:226916					
GI						



AB The cationic dyes can be represented by a general formula I, wherein R1, R7 are hydrogen, hydroxyl, unsubstituted or substituted C1-6 alkyl, aryl or alkoxy, or -NR3R 4, R3, R4 are hydrogen, unsubstituted or substituted aryl or C1-6 alkyl, R2 is hydrogen, hydroxyl, unsubstituted or substituted C1-6 alkyl, aryl or alkoxy, -NR3R4, or II, with R5=H, unsubstituted or substituted aryl or C1-6 alkyl, and X- is an anion. The dyes can be sued for compns., especially comprising other dyes, preferably for the use in human hair dyeing, as well as organic material, such as keratin, wool, leather, silk, cellulose or polyamides.

IT 745818-60-4 745818-61-5 745818-62-6

745818-63-7 745818-64-8 745818-68-2

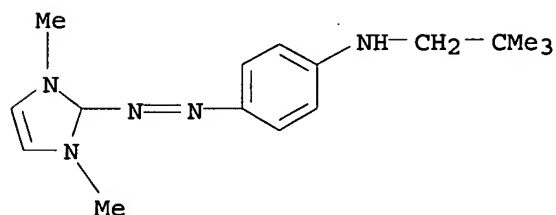
745818-70-6

RL: TEM (Technical or engineered material use); USES (Uses)

(in compns. containing cationic azo dyes and particularly useful for dyeing human hair)

RN 745818-60-4 CAPLUS

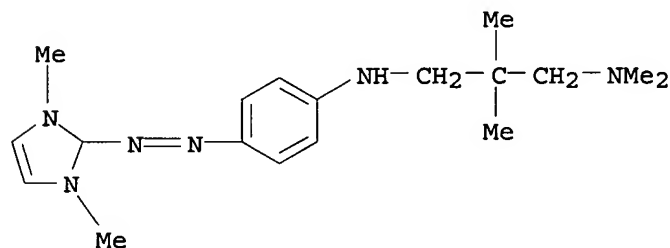
CN 1H-Imidazolium, 2-[[4-[(2,2-dimethylpropyl)amino]phenyl]azo]-1,3-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 745818-61-5 CAPLUS

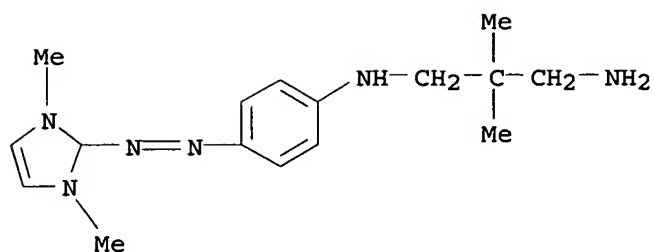
CN 1H-Imidazolium, 2-[[4-[[3-(dimethylamino)-2,2-dimethylpropyl]amino]phenyl]azo]-1,3-dimethyl-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 745818-62-6 CAPLUS

CN 1H-Imidazolium, 2-[[4-[(3-amino-2,2-dimethylpropyl)amino]phenyl]azo]-1,3-dimethyl-, chloride (9CI) (CA INDEX NAME)

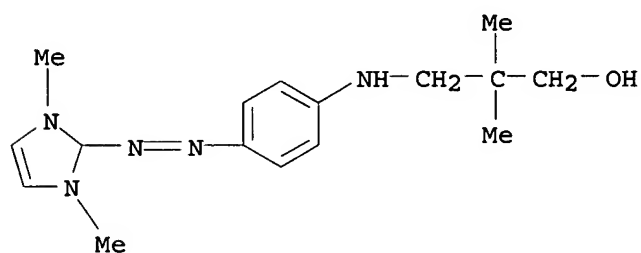


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 745818-63-7 CAPLUS

CN 1H-Imidazolium, 2,2'-[[4-[(3-hydroxy-2,2-dimethylpropyl)amino]phenyl]azo]-1,3-dimethyl-, chloride (9CI) (CA INDEX NAME)

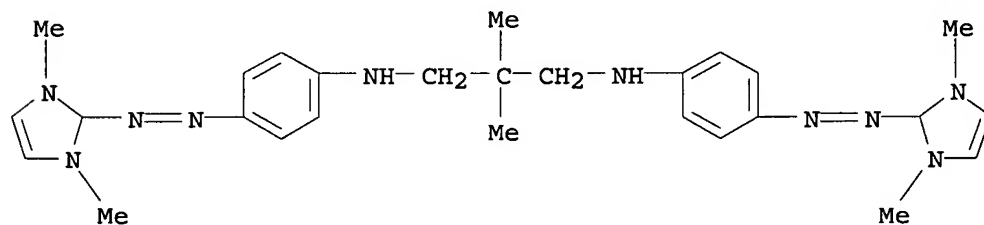


● Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 745818-64-8 CAPLUS

CN 1H-Imidazolium, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(imino-4,1-phenyleneazo)]bis[1,3-dimethyl-, dichloride (9CI) (CA INDEX NAME)

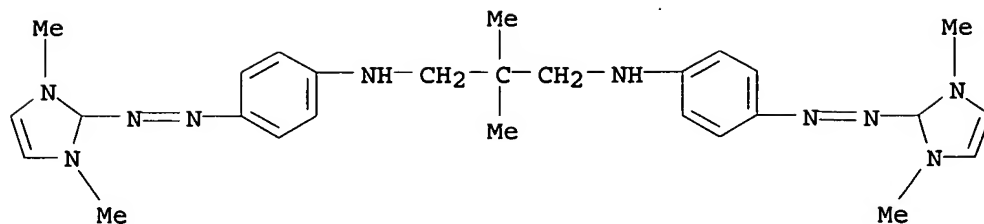


● 2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 745818-68-2 CAPLUS

CN 1H-Imidazolium, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(imino-4,1-phenyleneazo)]bis[1,3-dimethyl-, difluoride (9CI) (CA INDEX NAME)



● 2 F⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

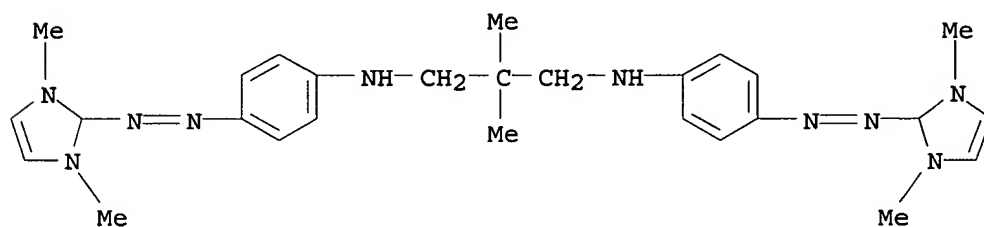
RN 745818-70-6 CAPLUS

CN 1H-Imidazolium, 2,2'-[(2,2-dimethyl-1,3-propanediyl)bis(imino-4,1-phenyleneazo)]bis[1,3-dimethyl-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 745818-69-3

CMF C27 H36 N10

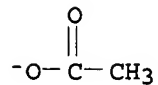


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1

CMF C2 H3 O2



=> => d que 18 stat

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L6	4	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"FROHLING BEATE"/AU
L7	28	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L5 OR L6
L8	11	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L7 AND CATIONIC

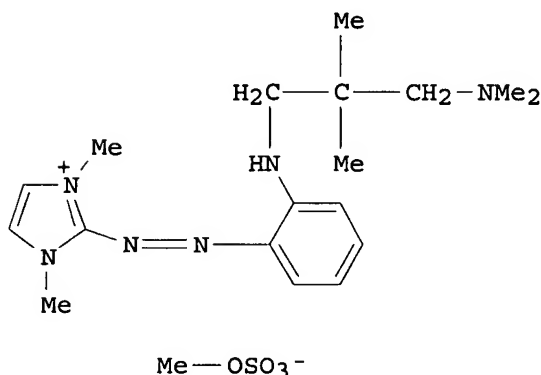
=> d 1-11 bib abs

L8 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:564646 CAPLUS
 DN 143:83171
 TI Hair dyeing with capped diazotized compounds and coupling components
 IN Eliu, Victor Paul; Froehling, Beate; Kauffmann, Dominique
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 79 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005058840	A2	20050630	WO 2004-EP53335	20041208
	WO 2005058840	A3	20050811		
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	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,				
	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
	LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
	NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
	TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
	EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,				
	RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,				
	MR, NE, SN, TD, TG				
	GB 2409862	A1	20050713	GB 2004-27428	20041215
PRAI	EP 2003-104814	A	20031219		
OS	MARPAT 143:83171				
AB	The present invention relates to a method of coloring porous material, which comprises contacting the material being colored, with a capped diazonium compound containing a cationic radical of an organic compound, and a radical of an unsubstituted or substituted, aliphatic or aromatic amine, and optionally a coupling component. Further, the present invention relates to novel compds. and compns. thereof. Thus, a dye emulsion contained 0.01, cetearyl alc. 3.5, Ceteareth-80 1.0, glyceryl mono/distearate 0.5, stearamide DEA 3.0, stearamphopropyl sulfonate 1.0, Polyquaternium-6 0.5, and water qs to 100%.				

L8 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:116243 CAPLUS
 DN 142:204147
 TI 1,3-Disubstituted 2-(phenylazo)imidazolium cationic direct dyes
 and 2-(2-fluorophenylazo)imidazole for hair dyes
 IN Eliu, Victor Paul; Froehling, Beate
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO Brit. UK Pat. Appl., 126 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2404661	A1	20050209	GB 2004-16150	20040720
	WO 2005012437	A1	20050210	WO 2004-EP51481	20040714
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	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	EP 2003-102286	A	20030724		
OS	MARPAT 142:204147				
GI					



AB Cationic 1,3-disubstituted 2-(phenylazo)imidazolium cationic direct dyes and 2-(2-fluorophenylazo)imidazole dyes are presented for hair dye compns. Further, the present invention relates to compns. thereof, especially comprising other dyes, to processes for the preparation thereof and to the use thereof in the dyeing of organic material, such as keratin, wool, leather, silk, paper, cellulose or polyamides, especially keratin-containing fibers, cotton or nylon, and preferably human hair. Such compns. may comprise in addition (a) at least a single further direct dye and/or an oxidative agent, (b) at least a single oxidative dye or (c) at least a single oxidative dye and an oxidative agent. Dye I was prepared and solution containing I and Plantaren 2000 surfactant tested on human hair.

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:1015862 CAPLUS
 DN 141:427743
 TI Method of hair dyeing by using diazonium compounds
 IN Eliu, Victor Paul; Froehling, Beate; Kauffmann, Dominique
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 89 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004100912	A2	20041125	WO 2004-EP50707	20040505
	WO 2004100912	A3	20050210		
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	CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				
	GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,				
	LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,				
	NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,				
	TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW:				
	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,				
	AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,				
	EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,				
	SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,				
	SN, TD, TG				
	US 2004231072	A1	20041125	US 2004-846901	20040513
PRAI	EP 2003-101364	A	20030515		
	EP 2003-104813	A	20031219		

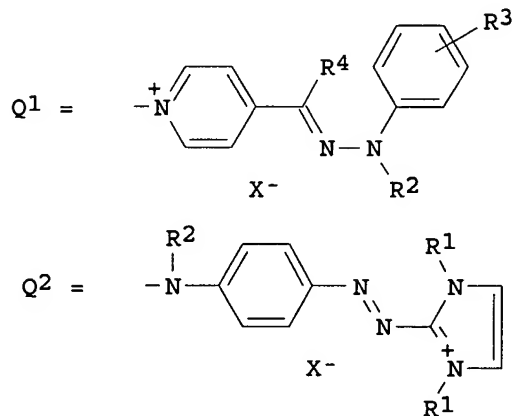
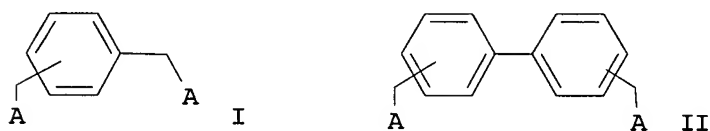
OS MARPAT 141:427743

AB Process of coloring porous material, which comprises applying to the material being colored at least one capped diazonium compound and then causing the capped diazonium compound present on the material to react with the hair. In addition, novel dyeing compds. and compns. thereof are claimed. A strand of bleached human hair is treated with a mixture of equal parts by weight 5 g of 6% hydrogen peroxide solution and of the following composition:

the composition consisted of cetyl stearyl alc. 11.00, Oleth-5 5.0, oleic acid 2.5, stearic acid monoethanolamide 2.5, coconut fatty acid monoethanolamide 2.5, sodium lauryl sulfate 1.7, 1,2-propanediol 1.0, ammonium chloride 0.5, tetrasodium EDTA 0.2, perfume 0.4, wheat protein hydrolyzate 0.2, silica 0.1, 2,5-diaminotoluene sulfate 0.7, 4-amino-2-hydroxytoluene 0.5, 2,5,6-triamino-4-hydroxypyrimidine sulfate 0.2, sodium sulfite 1.0, ascorbic acid 0.5, a triazene (preparation method given) 9.32, and water qs to 100%.

L8 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:801976 CAPLUS
 DN 141:315835
 TI Cationic dimeric dyes having aminoazomethine or azo groups
 IN Eliu, Victor Paul; Frohling, Beate
 PA Germany
 SO U.S. Pat. Appl. Publ., 48 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004187231	A1	20040930	US 2004-801892	20040316
	WO 2004083312	A2	20040930	WO 2004-EP50268	20040308
	W:				
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	EP 1622686	A2	20060208	EP 2004-718316	20040308
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
PRAI	EP 2003-405185	A	20030318		
	WO 2004-EP50268	W	20040308		
OS	MARPAT 141:315835				
GI					

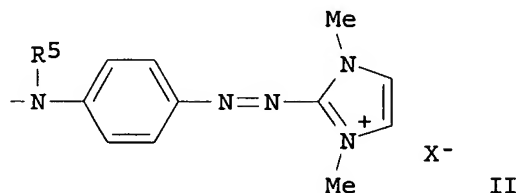
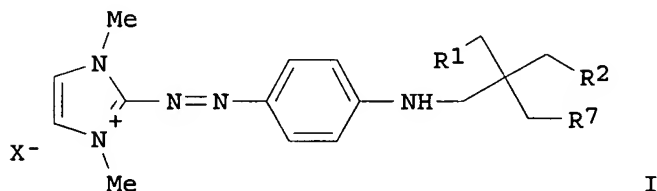


AB The present invention relates to cationic dyes I and II, wherein A is Q1 or Q2, wherein R1 and R2 are each independently of the other unsubstituted or substituted C1-C14 alkyl or an aryl radical, R3 is hydrogen, unsubstituted or substituted C1-C14 alkyl, unsubstituted or substituted C1-C14 alkoxy, cyano or halo, R4 is hydrogen, unsubstituted or

substituted C1-C14 alkyl or an aryl radical, and X- is an anion. Further, the present invention relates to compns. thereof, especially comprising other dyes, to processes for the preparation thereof and to the use thereof in the dyeing of organic material, such as paper and human hair with shades that are fast to washing, light, shampooing, and rubbing. A typical dye was manufactured by adding 16.5 g 4-pyridinealdehyde in 15 min to H₂SO₄ 14, water 42, and α -methylphenylhydrazine 16.2 at 293K with stirring, stirring 1 h, adjusting the pH to 2.2 with aqueous NaOH, adding 2.7 g NaCl at 333K, stirring 1 h, dissolving the 39.3 g resulting hydrazone in 200 g iso-PrOH, adding 27 g 4,4'-bis(chloromethyl)biphenyl, heating to 338K, and stirring 5 h.

L8 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:722659 CAPLUS
 DN 141:226916
 TI Cationic azo dyes particularly useful for dyeing human hair
 IN Eliu, Victor Paul; Frohling, Beate
 PA Germany
 SO U.S. Pat. Appl. Publ., 42 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

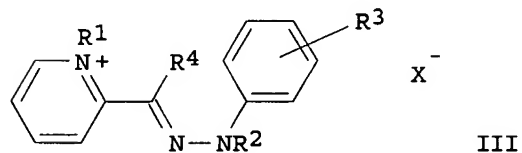
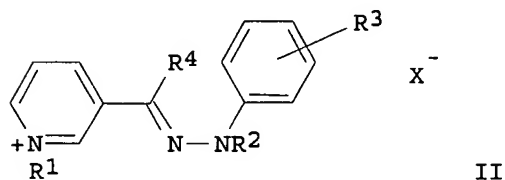
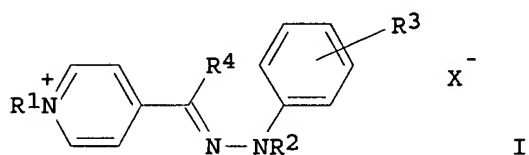
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004168265	A1	20040902	US 2004-783256	20040220
	WO 2004076564	A1	20040910	WO 2004-EP50132	20040216
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1599550	A1	20051130	EP 2004-711378	20040216
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PRAI	EP 2003-100445	A	20030225		
	EP 2003-102284	A	20030724		
	WO 2004-EP50132	W	20040216		
OS	MARPAT 141:226916				
GI					



AB The cationic dyes can be represented by a general formula I, wherein R1, R7 are hydrogen, hydroxyl, unsubstituted or substituted C1-6 alkyl, aryl or alkoxy, or -NR3R4, R3, R4 are hydrogen, unsubstituted or substituted aryl or C1-6 alkyl, R2 is hydrogen, hydroxyl, unsubstituted or substituted C1-6 alkyl, aryl or alkoxy, -NR3R4, or II, with R5=H, unsubstituted or substituted aryl or C1-6 alkyl, and X- is an anion. The dyes can be used for compns., especially comprising other dyes, preferably for the use in human hair dyeing, as well as organic material, such as keratin, wool, leather, silk, cellulose or polyamides.

L8 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:681015 CAPLUS
 DN 141:191919
 TI Cationic substituted hydrazone dyes, their production and their use on hair
 IN Eliu, Victor Paul; Frohling, Beate
 PA Germany
 SO U.S. Pat. Appl. Publ., 44 pp.
 CODEN: USXXCO
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004158937	A1	20040819	US 2004-778478	20040212
	WO 2004072183	A1	20040826	WO 2004-EP50101	20040209
	WO 2004072183	C1	20041223		
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	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	EP 1594922	A1	20051116	EP 2004-709247	20040209
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRAI	EP 2003-405093	A	20030217		
	WO 2004-EP50101	W	20040209		
OS	MARPAT 141:191919				
GI					



AB The invention relates to cationic dyes (I, II, and III; R1, R2 = C1-8-alkyl, optionally substituted benzyl; R3 = H, C1-8-alkyl, C1-8-alkoxy, CN, halo; R4 = C1-8-alkyl, optionally substituted aryl; X- = anion). The dyes have brilliant shades and good fastness on fibers, especially hair. In an example, phenylhydrazine was condensed with 4-acetylpyridine

and the resulting hydrazone was treated with Me_2SO_4 to give a brown dye.

L8 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:203643 CAPLUS
 DN 140:240608
 TI Diazonium compounds for hair coloring systems
 IN Froehling, Beate; Eliu, Victor Paul
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 138 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004019897	A1	20040311	WO 2003-EP9417	20030826
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003258664	A1	20040319	AU 2003-258664	20030826
	EP 1534226	A1	20050601	EP 2003-790920	20030826
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	BR 2003013991	A	20050719	BR 2003-13991	20030826
	CN 1678285	A	20051005	CN 2003-820700	20030826
	JP 2006501248	T2	20060112	JP 2004-532112	20030826
PRAI	EP 2002-405754	A	20020902		
	WO 2003-EP9417	W	20030826		

OS MARPAT 140:240608

AB A method of coloring porous material, especially human hair, is described. The method comprises applying to the material being colored, in any desired order successively, or simultaneously, (a) at least one capped diazonium compound, and (b) at least one cationic water-soluble aromatic coupling component, under conditions such that, initially, coupling does not take place, and then causing the capped diazonium compound present on the material to react with the coupling component. For example, preparation of a triazene dye was presented. 4-Chloro-2-amino-1-methylbenzene (43.4 g) was mixed with 81 g of 32% hydrochloric acid and cooled to 0. Then, over the course of 1 h, 75 mL of 4 N aqueous sodium nitrite solution were added

dropwise;

with stirring, the temperature being maintained at 0-5. The resulting solution was

then added dropwise, over the course of 15 min, to an aqueous solution of 30 g of

sarcosine and 90 g of sodium carbonate in 250 mL of water at a temperature of 0-5. The resulting brown suspension was filtered, the was recrystd. from ethanol and dried in air to afford 66.2 g of 3-methyl-1-(5-chloro-2-methylphenyl)-3-(carboxymethyl)triazene powder (yield: 91%). A strand of bleached human hair was immersed, for 30 min at room temperature, in an aqueous solution containing 0.2 M triazene and 0.2 M coupling component, which has been adjusted to pH 10.0 using sodium carbonate, ammonia or NaOH. The strand was removed, excess solution was wiped off and the strand was immersed for 5 min in a pH 3 buffer solution containing 4% sodium citrate and 2% citric acid. The strand was then thoroughly rinsed using water and, where appropriate, a shampoo solution and was dried. Hair was colored with outstanding fastness properties, especially fastness to washing properties.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:203642 CAPLUS
 DN 140:258598
 TI Diazonium compounds for hair coloring systems
 IN Adam, Jean-marie; Yousaf, Taher; Froehling, Beate; Eliu, Victor Paul
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 147 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004019896	A1	20040311	WO 2003-EP9416	20030826
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2003267012	A1	20040319	AU 2003-267012	20030826
	EP 1534225	A1	20050601	EP 2003-747929	20030826
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	BR 2003014007	A	20050719	BR 2003-14007	20030826
	CN 1678284	A	20051005	CN 2003-820608	20030826
	US 2005251932	A1	20051117	US 2005-525300	20050214
PRAI	EP 2002-405753	A	20020902		
	WO 2003-EP9416	W	20030826		

OS MARPAT 140:258598

AB A method of coloring porous material, especially human hair, is described. The method comprises applying to the material being colored, in any desired order successively, or simultaneously, (a) at least one capped diazonium compound, and (b) at least one water-soluble coupling component, under conditions such that, initially, coupling does not take place, and then causing the capped diazonium compound present on the material to react with the coupling component. For example, preparation of a triazene dye was presented. 4-Chloro-2-amino-1-methylbenzene (43.4 g) was mixed with 81 g of 32% hydrochloric acid and cooled to 0°. Then, over the course of 1 h, 75 mL of 4 N aqueous sodium nitrite solution were added dropwise, with stirring, the temperature being maintained at 0-5°. The resulting solution was then added dropwise, over the course of 15 min, to an aqueous solution of

30

g of sarcosine and 90 g of sodium carbonate in 250 mL of water at a temperature of 0-5°. The resulting brown suspension was filtered, the was recrystd. from ethanol and dried in air to afford 66.2 g of 3-methyl-1-(5-chloro-2-methylphenyl)-3-(carboxymethyl)triazene powder (yield: 91%). A strand of bleached human hair was immersed, for 30 min at room temperature, in an aqueous solution containing 0.2 M triazene and 0.2 M coupling

component, which has been adjusted to pH 10.0 using sodium carbonate, ammonia or NaOH. The strand was removed, excess solution was wiped off and the strand was immersed for 5 min in a pH 3 buffer solution containing 4% sodium

citrate and 2% citric acid. The strand was then thoroughly rinsed using water and, where appropriate, a shampoo solution and was dried. Hair was colored with outstanding fastness properties, especially fastness to washing properties.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:696960 CAPLUS
 DN 139:231929
 TI Production and use of cationic azo dyes
 IN Eliu, Victor Paul; Hauser, Julia
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 48 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003072657	A1	20030904	WO 2003-EP1732	20030220
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	EP 1478696	A1	20041124	EP 2003-706541	20030220
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	BR 2003008055	A	20041228	BR 2003-8055	20030220
	JP 2005519149	T2	20050630	JP 2003-571351	20030220
	US 2005154195	A1	20050714	US 2003-505730	20030220
PRAI	EP 2002-405145	A	20020228		
	WO 2003-EP1732	W	20030220		

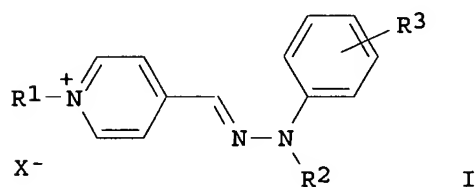
OS CASREACT 139:231929; MARPAT 139:231929

AB A process for the preparation of certain cationic imidazolium azo dyes is disclosed as well as their use in dyeing of keratin-containing fibers, especially hair. The dyes are produced at lower temps. and in improved yields and more quickly than by prior-art methods. In an example, p-anisidine was treated with 1,3-dimethyl-2-(4-methoxyphenylazo)imidazolium chloride (I) to give a dye product in which the 4-methoxyphenylazo group of I is replaced by a 4-(4-methoxyanilino)phenylazo group.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2003:571066 CAPLUS
 DN 139:118725
 TI Cationic dyes, their production and their use on hair
 IN Eliu, Victor Paul; Froehling, Beate; Hauser, Julia
 PA Ciba Specialty Chemicals Holding Inc., Switz.
 SO PCT Int. Appl., 135 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003060015	A1	20030724	WO 2003-EP68	20030107
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	AU 2003201617	A1	20030730	AU 2003-201617	20030107
	EP 1468049	A1	20041020	EP 2003-700314	20030107
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	BR 2003006887	A	20041228	BR 2003-6887	20030107
	JP 2005514512	T2	20050519	JP 2003-560105	20030107
	US 2005000034	A1	20050106	US 2004-501576	20040713
PRAI	EP 2002-405022	A	20020115		
	WO 2003-EP68	W	20030107		
OS	MARPAT 139:118725				
GI					



AB The invention relates to cationic dyes (I; R1, R2 = C1-6-alkyl or optionally substituted benzyl, whereby at least one of R1 and R2 is optionally substituted benzyl; R3 = H, C1-6-alkyl, C1-6-alkoxy, CN, halogen, whereby R3 may not be H when R1 is benzyl and R2 is Me; X- = anion) and their production from 4-pyridinecarboxaldehyde and the appropriate phenylhydrazine derivative and alkylating or benzylating agent. I provide shades with good fastness and depth on hair. In an example, the hydrazone formed from 4-pyridinecarboxaldehyde and PhMeNNH2 was quaternized with PhCH2Cl to give an orange dye.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1999:810889 CAPLUS
 DN 132:40313
 TI Hair dye compositions containing fatty acids and their esters with sugars
 and ethoxylated fatty alcohols
 IN Frohling, Beate; Golinski, Frank
 PA Goldwell G.m.b.H., Germany; KPSS KAO Professional Salon SE
 SO Eur. Pat. Appl., 10 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 965324	A1	19991222	EP 1999-110868	19990607
	EP 965324	B1	20031022		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19827434	A1	19991223	DE 1998-19827434	19980619
	DE 19827434	C2	20000817		
	DE 19922851	A1	20001123	DE 1999-19922851	19990519
	DE 19922851	C2	20031120		
	AT 252362	E	20031115	AT 1999-110868	19990607
PRAI	DE 1998-19827434	A	19980619		
	DE 1999-19922851	A	19990519		

AB A hair dye emulsion contains 1.5-10% C10-18 fatty acid, 5-25 C10-22 fatty
 alc. ethoxylate and 5-30% liquid sugar fatty acid ester. The emulsion can
 be manufactured from the mixture of oil and water phases 15-35°. Thus, an
 aqueous phase contained 25% NH_3 13.50, SiO_2 0.15, trisodium EDTA 0.30, NH_4Cl
 0.70, Na_2SO_3 1.50, ascorbic acid 0.30, cationic plant protein
 hydrolyzate 0.75, panthenol 0.90, hop extract 0.75, perfume 0.60,
 p-toluyldiamine sulfate 0.80, resorcinol 0.07, 4-chlororesorcinol 0.25,
 3-aminophenol 0.03 and water to 100.0%. Sixty-eight parts of this composition
 were mixed with 32 parts of the following oil phase at 20-25°. Th
 oil phase contained oleic acid 31.2, laureth-2 37.5, and Me glucose
 dioleate 31.3%.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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(FILE 'HOME' ENTERED AT 14:12:50 ON 10 MAR 2006)

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L1 STRUCTURE UPLOADED

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L4 2 SEA ABB=ON PLU=ON L3

D QUE L4 STAT

D 1-2 BIB ABS HITSTR

E ELIU VICTOR/AU

L5 27 SEA ABB=ON PLU=ON ("ELIU VICTOR"/AU OR "ELIU VICTOR PAUL"/AU)

E FROHLING BEATE/AU

L6 4 SEA ABB=ON PLU=ON "FROHLING BEATE"/AU

L7 28 SEA ABB=ON PLU=ON L5 OR L6

L8 11 SEA ABB=ON PLU=ON L7 AND CATIONIC

D QUE L8 STAT

D 1-11 BIB ABS

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

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DICTIONARY FILE UPDATES: 9 MAR 2006 HIGHEST RN 876338-69-1

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*

* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

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